Manitoba

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Health and Healthy Living
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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the month of July 2008. This information includes the number of reported cases of notifiable communicable diseases for which individuals in Manitoba tested positive* on laboratory samples and/or clinical reports, during the month of July 2008.

Communicable Diseases (non STI-BBPs)

In total, there were **453** new infections occurring across 26 communicable diseases** (excluding sexually transmitted infections and HIV) in July 2008. The observed numbers of cases were within the statistically expected range for all of the reported communicable diseases.

The expected number of cases and accompanying range is based on the statistical number of cases June, July and August, 2003-2008.

MRSA positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals, who have no symptoms and are found with admission screening activities at facilities. If facilities increase their screening activities, it would result in a rise in colonized MRSA cases. Together MRSA and *Clostridium difficile* accounted for 65% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **661** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in July:

- 544 cases of chlamydia (Ct)
- 65 cases of gonorrhoea (GC)
- 44 co-infections of Ct and GC and
- 8 cases of syphilis

Forty-three percent of all GC and Ct cases in the province were reported among females of age group 15-24 years. 47% all Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 18% were from the Burntwood Health Region.

In July, 29 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Ten Manitobans tested positive for HIV in July. A new case of HIV infection is defined as a positive test with a unique code that has not been previously associated with a positive test result in Manitoba. Positive tests included in this month's statistics include both nominal and non-nominal testing results. If HIV case investigation forms

identify previous positive results with the appropriate nominal or non-nominal information, duplicate counting can be reduced. The HIV cases reported in July included four females between the ages of 15 and 19 and the rest of the cases were spread over the ages 30 to 69.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are <u>not referred out</u> for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA) (ICD9 B95.6)
- Schistosomiasis (ICD9: 120)
- *Streptococcus pneumoniae* – other site (ICD9: 041.2)
- *Strongyloides* (ICD9: 127.2)
- Vancomycin resistant enterococci (VRE) (ICD9 B96.8)

The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health <u>for information only</u>:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simplex (Epstein Barr, CSF only)

All other diseases are referred out for further public health <u>follow-up and investigation</u>

Please feel free to contact me should you have any questions about this report.
Thank you.

Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR July 2008

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2007	2008	Expected*	Ex. Range**	2007	2008
006.9	AMEBIASIS	3	1	3	0-7	31	22
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1		
005.8	B. CEREUS			0	0-1	2	1
320.0	BAC. MENINGITIS - HAEM			0	0-0		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	3	1
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	8	12		***	58	69
116.0	BLASTOMYCOSIS				***	13	7
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-1		
005.2	C. PERFRINGENS			1	0-3	3	
008.43	CAMPYLOBACTER	31	23	27	16-38	133	116
558.2	CLOSTRIDIUM DIFFICILE	83	69		***	629	508
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	9	4	5	0-18	19	11
061.0	DENGUE FEVER			0	0-0	1	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-0		4
032	DIPHTHERIA CASES			0	0-1		1
123.4	DIPHYLLOBOTHRIUM SPP	1		1	0-4	7	1
008.0	E. COLI-VEROTOXIGENIC	9	5	13	0-34	28	22
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	17	16	14	5-23	65	78
041.5	H.I.B.-NON MTGS			0	0-1		1
041.59	HAEM. INFLUENZAE (non-B)		1		***	7	8
480.8	HANTA VIRUS			0	0-0	1	
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0	1	
070.1	HEPATITIS A		1	2	0-5	6	8
070.3	HEPATITIS B	1		1	0-3	4	2
070.51	HEPATITIS C	24	29	29	16-42	197	221
487.1A	INFLUENZA A				***	70	78
487.1B	INFLUENZA B				***	1	44
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1		2
088.81	LYME DISEASE	3	2	1	0-4	3	3
084	MALARIA		1	1	0-5	8	6
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	3	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		2
B95.6	MRSA	171	226	120	0-241	1080	1220
072.9	MUMPS			1	0-3	5	
036.89	N.MENINGITIDIS OTHER			0	0-0		3
728.86	NECROTIZING FASCIITIS	5	1	1	0-5	10	8
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	7	6	3	0-8	14	14
038.2	PNEUM. SEPTICEMIA	6	6	6	0-12	56	75
073.9	PSITTACOSIS			0	0-0		

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2007	2008	Expected*	Ex. Range**	2007	2008
083.0	Q FEVER			0	0-0		1
056.9	RUBELLA			0	0-0	2	
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER	1		0	0-2	2	1
003.0	SALMONELLA	16	21	16	8-24	134	159
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	1	1	1	0-3	9	13
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-1		
785.5	STAPH TOXIC SHOCK				***	1	2
481.9	STREP PNEUMONIA - PR		1	0	0-1		1
041.1	STREP PYOGENES - OTHER STER	3	1		***	21	21
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE	2		0	0-1	3	2
127.2	STRONGYLOIDES			0	0-1	13	3
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS			0	0-1		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1	1	
013	TUBERCULOSIS - NON-RESP.	1	3	2	0-5	10	12
011	TUBERCULOSIS - RESP.	8	15	8	0-15	50	66
010	TUBERCULOSIS-PRIM.		1	1	0-3	3	4
021.9	TULAREMIA	1		0	0-1	1	
002.0	TYPHOID			0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	5	5		***	29	43
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
198	WNV NEUROLOGICAL SYNDROME	18	1		***	18	1
008.44	YERSINIA ENTEROCOLITICA			1	0-3	7	2
		434	**453**			**2762**	**2871**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR July 2008

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
006.9	AMEBIASIS																						1						1
038.0	BETA STREP SEPTICEMIA																2	1		1	3		1	1		2	1		12
008.43	CAMPYLOBACTER			2	1		1		1	1	2			2			2	1	2	4	1				1	2			23
558.2	CLOSTRIDIUM DIFFICILE	1		1			1			1	1	1		1		3	2	4	1	4	6	4	2	4	7	17	8		69
007.8	CRYPTOSPORIDIOSIS				1	1			1						1														4
V02.4	DIPH. CARRIERS								1																				1
008.0	E. COLI 0157			1	1				1				1							1									5
007.1	GIARDIA LAMBLIA	1	2		1	2	1		3			1				1			2		2								16
041.59	HAEM. INFLUENZAE (non-B)																		1										1
070.1	HEPATITIS A																		1										1
070.51	HEPATITIS C											1	1		2	4	5	3	9		3							1	29
088.81	LYME DISEASE					1	1																						2
084	MALARIA																		1										1
B95.6	MRSA	3	4	10	14	12	7	7	11	13	10	9	9	6	9	17	13	8	10	8	8	8	7	1	8	5	9		226
728.86	NECROTIZING FASCIITIS													1															1
481.9	PENICILLIN-RESIS STREP.PN																						1						1
033.0	PERTUSSIS	2			2	2																							6
038.2	PNEUM. SEPTICEMIA																1	2	2			1							6
003.0	SALMONELLA				2				1	1	1		3	2	1		2	1	2	2		2	1						21
004	SHIGELLOSIS										1																		1
041.1	STREP PYOGENES - OTHER ST																									1			1
013	TUBERCULOSIS - NONRESP									1	1			1															3
010	TUBERCULOSIS - PRIM				1																								1
011	TUBERCULOSIS - RESP									1		1				1	2	1	2		2		2	1	1		1		15
B96.8	VANCOMYCIN RES. ENTER.							1										1		1					1		1		5
198	WNV Neurological Syndrome																						1						1

ICD9	Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing age/gendr	Total
		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
		7	6	14	23	18	11	8	19	18	16	13	14	13	13	26	29	22	33	21	25	15	16	7	18	27	20		453

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR July 2008

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	1																					1
038.0	BETA STREP SEPTICEMIA	8							1		1						1				1		12
008.43	CAMPYLOBACTER	9	1				3		2		3		3		2								23
558.2	CLOSTRIDIUM DIFFICILE	45	5		4		2		3		6		2					2					69
007.8	CRYPTOSPORIDIOSIS	1															2		1				4
V02.4	DIPH. CARRIERS																	1					1
008.0	E. COLI 0157	1									1		2								1		5
007.1	GIARDIA LAMBLIA	8			1						2		3		1				1				16
041.59	HAEM. INFLUENZAE (non-B)										1												1
070.1	HEPATITIS A														1								1
070.51	HEPATITIS C	17	2					3	1		1		2						1		2		29
088.81	LYME DISEASE		1								1												2
084	MALARIA	1																					1
B95.6	MRSA	73	4		3		2		9		7		3		5	1	24	53	42				226
728.86	NECROTIZING FASCIITIS	1																					1
481.9	PENICILLIN-RESIS STREP.PN	1																					1
033.0	PERTUSSIS								3		1								2				6
038.2	PNEUM. SEPTICEMIA	2							1				1						2				6
003.0	SALMONELLA	8	3				1		2		1	1	3		1		1						21
004	SHIGELLOSIS	1																					1
041.1	STREP PYOGENES - OTHER ST	1																					1
013	TUBERCULOSIS - NONRESP	3																					3
010	TUBERCULOSIS - PRIM	1																					1
011	TUBERCULOSIS - RESP	4								1							1	6	3				15
B96.8	VANCOMYCIN RES. ENTER.	3											1					1					5
198	WNV Neurological Syndrome												1										1
		189	16		8		8	3	22	1	25	1	21		10	1	29	63	52		4		453

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction

STD Infection Summary Report - July 2008

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2007	2008	2007	2008
All Chlamydia Infections	436	588	2743	4064
All Gonorrhea Infections (including PRNG)	143	109	789	882
All Syphilis Infections	4	8	26	27
Gonorrhea & Chlamydia Co-infections	51	44	309	396
HIV	8	10	47	56

Total Number of STD Cases by Age and Gender - July 2008

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing age/gendr	Total
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
Chlamydia Only Cases							2	1	129	44	120	82	63	37	28	22	6	7	2			1						544
Gonorrhea Only Cases							2	1	7	3	8	9	8	7	6	8		5		1								65
Syphilis Only Cases										1				1			1	3				1				1		8
GC and CT Cases							2		11	6	6	3	2	4	3	4		2		1								44
							6	2	147	54	134	94	73	49	37	34	7	17	2	2		2				1		661
HIV									4						1	1	1	1		1	1							10

Regional STD Distribution - July 2008

Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
All Chlamydia Infections	279	20	15	5		8	7	11		40		46	3	13	3	24	83	24		6	1	588
All Gonorrhea Infections	50	1		1				2		7		2				2	32	10		2		109
All Syphilis Infections	7			1																		8
GC and CT Infections	11							2		5		1				1	18	4		2		44

* F=Federal Jurisdiction (includes First Nations and Inuit Health) P=Provincial Jurisdiction